

PROMOTION RECOMMENDATION
UNIVERSITY OF MICHIGAN
MEDICAL SCHOOL
DEPARTMENT OF PEDIATRICS AND COMMUNICABLE DISEASES

Approved by the Regents
May 20, 2010

Linda M. McAllister-Lucas, M.D., Ph.D., assistant professor of pediatrics and communicable diseases, Department of Pediatrics and Communicable Diseases, Medical School, is recommended for promotion to associate professor of pediatrics and communicable diseases, without tenure, Department of Pediatrics and Communicable Diseases, Medical School.

Academic Degrees:

M.D.	1996	Vanderbilt University
Ph.D.	1994	Vanderbilt University
B.A.	1987	Carleton College, Northfield, MN

Professional Record:

2004-present	Assistant Professor of Pediatrics and Communicable Diseases, University of Michigan
2002-2004	Lecturer, Department of Pediatrics and Communicable Disease, University of Michigan

Summary of Evaluation:

Teaching: Dr. McAllister-Lucas contributes to the educational mission at the University of Michigan through all levels. She has been a faculty mentor for medical students and pediatric residents, pediatric hematology and oncology (PHO) fellows, UROP students, premedical undergraduates, graduate students, MSTP (Medical Scholars Training Program) students as well as post-doctoral fellows. She is also mentoring the research of a junior faculty member. Dr. McAllister-Lucas teaches in the Medical School's M2 hematology sequence, contributing two lectures, and as a small group leader. She contributes lectures to the pediatric resident crash course and participates in morning report. She supervises medical students, interns and residents on the PHO inpatient and outpatient services. She mentors fellows throughout their training as a primary attending physician in the outpatient clinic and contributes lectures to formal education sessions. She plays a critical role as the director of the pediatric tumor board, an important aspect of academic learning for PHO fellows. She also has national education efforts, contributing lectures to the UM Pediatric Review Course and to the American Academy of Pediatrics PREP Review course. In the past two years, her mentee has been awarded the Nancy Newton Loeb and Helen L. Kay Pediatric Cancer Research Awards.

Research: Dr. McAllister-Lucas' research interests are in the evaluation of cellular elements that regulate the NF-kappaB signaling pathway and their influence on the pathogenesis of

inflammatory and malignant disease, in particular, lymphoma genesis. Her studies have been focused on an investigation of the API2-MALT1 fusion protein in lymphoma development. Her laboratory demonstrated, for the first time, that a protein complex composed of CARMA, Bcl10 and MALT1 (CBM), has a critical function in regulating pro-inflammatory NF-kB signaling in cells of the immune system. Her manuscript describing the role of the CBM complex (along with two other independent studies) provided compelling evidence that the CBM complex may constitute the “missing link” between GPCRs and NF-kB activation. These scientific observations have been the subject of several high profile review articles and were published in three original manuscripts. As evidence of her expertise and the quality of her scientific contributions, Dr. McAllister-Lucas’ publications have been cited more than 1,500 times and her expertise in NF-kB signaling has led to several additional research collaborations. Dr. McAllister-Lucas is now funded through three R01 grants where she is either principal investigator or co-investigator. She also has funding from two UMCCC grants and is co-investigator on a collaboration with the Division of Hematopathology. Her most recent research insights have been presented at national and international meetings and she was invited to give a research presentation at Vanderbilt in October of 2009. She has recent publications in top tier peer-reviewed journals. Within clinical oncology, she is the institutional principal investigator on a COG (Children’s Oncology Group) pilot study for B-cell leukemia/lymphoma and is co-director of a Hematopathology Tissue Bank Initiative.

Recent and Significant Publications:

McAllister-Lucas LM, Lucas PC: Finally, MALT1 is a protease. *Nature Immunology* 9:231-233, 2008.

Lucas PC, Kuffa P, Gu S, Kohrt D, Kim DS, Siu K, Jin X, Swenson J, McAllister-Lucas LM: A dual role for the API2 moiety in API2-MALT1-dependent NF-kappaB activation: heterotypic oligomerization and TRAF2 recruitment. *Oncogene* 26:5643-5654, 2007.

McAllister-Lucas LM, Ruland J, Siu K, Jin X, Gu S, Kim DS, Kuffa P, Kohrt D, Mak TW, Nunez G, Lucas PC: CARMA3/Bcl10/MALT1-dependent NF-kappaB activation mediates angiotensin II-responsive inflammatory signaling in non-immune cells. *Proceedings of the National Academy of Sciences* 104:139-144, 2007.

Wang D, Yun Y, Case SM, McAllister-Lucas LM, Wang L, DiStefano PS, Nunez G, Bertin J, Lin X: A requirement for CARMA1 in TCR-induced NF-kappaB activation. *Nature Immunology* 9: 830-835, 2002.

McAllister-Lucas LM, Inohara N, Lucas PC, Ruland J, Li Q, Chen S, Chen F, Yamaoka S, Verma, IM, Mak TW, Nunez G: Bim1, a MAGUK family member linking PKC activation to Bcl10-mediated NF-kB induction. *Journal of Biological Chemistry* 276: 30589-30597, 2001.

Service: Divisionally, Dr. McAllister-Lucas directs the Pediatric Hematology Oncology Tumor Board and serves on the Recruitment and Retention and Clinical Database Working groups. Departmentally, she is a member of the resident selection committee and the resident advisory

committee and has been a moderator for the Annual Pediatric Research Symposium. She is a member of the Medical School MSTP Advisory Committee. Dr. McAllister-Lucas is also physician coordinator for the Mott Memorial Service Committee and is on the thesis committee for a graduate student in the Cellular and Molecular Biology Program. Dr. McAllister-Lucas has served as attending physician on the inpatient pediatric hematology/oncology service for four to six weeks per year and one day per week in the outpatient PHO clinic. Her excellent and compassionate care has been recognized by Best Doctors in America and America's Top Doctors.

External Review:

Reviewer A: "Dr. McAllister-Lucas has been highly productive in a short period of time and has achieved national recognition and peer acceptance within the field of lymphoma and immune cell biology. I would consider her ahead of her peers during this period of time and has definitely established herself as being on the cutting edge..."

Reviewer B: "...I would rate Dr. McAllister-Lucas in the top 5% of faculty in pediatric hematology/oncology. She is well-known nationally and I think her work will have a profound impact on both the clinical and laboratory biology of hematological malignancies. She is immersed in a wonderful community of clinical and basic scientists at the University of Michigan and I am confident that her career will continue to thrive."

Reviewer C: "Dr. McAllister-Lucas's [sic] leadership in this research field is also well spoken by her invited review article in Nature Immunology 2008, which is highly regarded in the research community. Clearly, Dr. McAllister-Lucas has established a niche for her research, and she is also well connected in the local research network on lymphoma pathogenesis..."

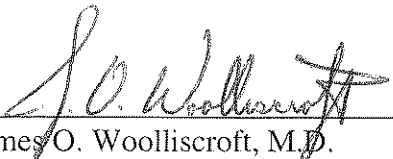
Reviewer D: "...Dr. McAllister-Lucas' achievements position her in the upper 10-15% tier of other physician-scientists who have clinical responsibilities and are at a similar stage of their career."

Reviewer E: "...She has provided important insights into the role of chronic inflammation in the development of MALT lymphomas. This research is original and is establishing Dr. McAllister-Lucas as a leader in this field. In addition she has strong contributions in the areas of teaching and administration."

Reviewer F: "She has clearly been successful in establishing an independent academic laboratory during her time as Assistant Professor of Pediatric Hematology and Oncology at the University of Michigan; and has remained productive in her research endeavors despite the challenges of simultaneously practicing as a well-trained, nationally-recognized pediatric oncologist."

Summary of Recommendation:

Dr. McAllister-Lucas provides outstanding contributions to all core areas of the University's academic mission. Her diligence in the laboratory has been rewarded with significant extramural funding from multiple agencies. Dr. McAllister-Lucas is a pillar of the divisional program and is advancing the infrastructure toward translational and institutional phase I studies in lymphoid malignancies. I am pleased to recommend Dr. McAllister-Lucas for promotion to associate professor, without tenure, in the Department of Pediatrics and Communicable Diseases.



James O. Woolliscroft, M.D.
Dean
Lyle C. Roll Professor of Medicine

May 2010